



**Position, Navigation, and Timing (PNT) Workshop**  
**May 24-25, 2022**  
**Agenda**

May 24 (DAY 1)			
Time (PT)	Item	Presenter	Purpose
8:00- 8:10	Welcome	DR. Parimal Kopardekar, NASA NARI Director	Opening Comments – Why Alternate PNT, why Now?
8:10- 8:20	FAA Comments	Steve Bradford - FAA	FAA Statement of Need - R&D Efforts Regarding PNT
8:20- 8:35	Workshop Purpose/Goals	Wes Ryan, NARI Program Manager Lannie Herlihy, FAA	Clear Purpose and Expected Outcomes
8:35- 9:15	Overview of FAA/NASA PNT Work	Ken Alexander, FAA Corey Ippolito, NASA Ames Evan Dill, NASA Langley	Existing FAA/NASA Efforts for PNT R&D and Existing Approvals vs. Denied Uses
Break			
9:30-10:30	Description of PNT Needs and Vision for New Capabilities – Sean Memmen - Moderator	Industry Panel <ul style="list-style-type: none"> <li>• uAvionix – Ryan Braun</li> <li>• NextNav – Ganesh Pattabiraman</li> <li>• Spirent - Jeremy Bennington</li> <li>• Satelles – Mike O’Connor</li> <li>• Near Earth Technologies – Sanjiv Singh</li> <li>• BNSF – Jim Barrett</li> </ul>	What new missions are desired & where is technology now to meet that vision? Emerging Technology – How can sensor fusion systems meet the need?
10:30- 11:15	Sample Use Case Overview	Wes Ryan, NARI Program Manager	Low Altitude Rotorcraft Logistics Low Altitude Fixed Wing Logistics
Lunch/Open Mic			
12:00-1:30	Mural Collaboration Session	Breakout 1a – Use Case 1 – Capability & Performance Breakout 2a – Use Case 2 – Capability & Performance	Explore PNT Barriers and Opportunities for Specific Mission Elements
1:30 – 2:00	Regroup - Discussion from Breakouts	Recap/Report out of what each breakout learned (Top 5)	Identify actionable steps and areas for future work
May 25 (DAY 2)			
8:00-9:00	Recap of Prior Day	Wes Ryan, NARI Program Manager Lannie Herlihy, FAA	Summary of the prior day and review of agenda for 5/25



9:00 – 10:00	Mural Collaboration Session #2	Breakout 1a – Use Case 1 – Technology & Metrics Breakout 2a – Use Case 2 – Technology & Metrics	Explore PNT Barriers and Opportunities for Specific Mission Elements
<b>Break</b>			
10:30- 11:30	Regroup - Discussion from Breakouts	Recap/Report out of what each breakout learned (Top 5)	Identify actionable steps and areas for future workshops
<b>Lunch</b>			
12:15-12:45	Summary of Findings	Capture of “top ten” areas that could inform future work in SDOs, future collaboration, etc.	Partnerships with Industry, NASA & FAA to Mature PNT Technology
12:45-1:30	Next Steps & responsibilities	Team – Wes & Lannie – What do we need next?	What did we learn and what comes next? Who is doing it? What partnerships can we generate?
<b>Break</b>			
1:45-2:15	Workshop Critique	Wes Ryan, NARI Lannie Herlihy Mich Narins	For Future Detailed Dives into PNT Capabilities, What Could Have Been Done Differently, Better, etc.
2:15-2:30	Closing Remarks	DR. Parimal Kopardekar, NARI Director	